

GREEN INFRASTRUCTURE PLAYBOOK

NEW HARTFORD, IOWA











Resources / Case Studies

Resource	Agency	Website
Backyard and Urban Conservation		http://www.ia.nrcs.usda.gov/features/Backyard.html
Urban Conservation Photo Gallery	Natural Resource Conservation Services	http://www.ia.nrcs.usda.gov/features/urbanphotos.html
Rain Garden Incentive Program for Homeowners in Pottawattamie County		http://www.ia.nrcs.usda.gov/features/PCraingardens.html
Iowa Rain Garden Projects	Urban Resources & Borderland Alliance Network	http://www.urbanwaterquality.org/RainGardens/projects1.htm
Brochure for the Urban Conservation Program	Iowa Department of Agricultural and	http://www.iowaagriculture.gov/FieldServices/pdf/Urban Conservation Brochure.pdf
Iowa Regional Watershed Coordinators	Land Stewardship	http://www.iowaagriculture.gov/waterResources/pdf/RegionalCo ordinators.pdf
Elmhurst, IL multiple practices on one site	One Drop at a Time – New Resourceful Paradigms at 168 Elm Ave	http://www.delafleur.com/168_Elm/index.htm











Resource	Agency	Website
Iowa Stormwater Management Manual Native Landscaping	Iowa State University, CTRE (Center for Transportation Research and Education)	http://www.intrans.iastate.edu/pubs/stormwater/documents/2E- 6NativeLandscaping.pdf
Iowa Stormwater Management Manual	Iowa State University, CTRE (Center for Transportation Research and Education)	http://www.ctre.iastate.edu/PUBS/stormwater/index.cfm
Iowa Stormwater Education Program	Laura Acconiation of Mussiainal Hillitia	http://iowastormwater.org/
List of Qualified Iowa Rain Gardeners	Iowa Association of Municipal Utilities	http://www.iowastormwater.org/Portals/0/pdf/RG%20Exam%20 May%202009%20Passed.pdf
IDNR Stormwater manuals, brochures, videos, etc.		http://www.iowadnr.gov/water/watershed/stormwater.html
Iowa Department of Natural Resources General Permit #2	Iowa Department of Natural Resources	www.iowadnr.com/water/stormwater/index.html
Iowa Stormwater Best Management Practices Database		http://programs.iowadnr.gov/stormwaterbmp/Default.aspx











Resource	Agency	Website
IOWATER Volunteer Water Quality Monitoring Program		http://www.iowater.net/
The Natural Resources GIS Library	Iowa Department of Natural Resources Geological Survey	http://www.igsb.uiowa.edu/nrgislibx/
Water: Drinking, Stormwater		http://www.iowalifechanging.com/community/resources/water.as
and Wastewater		<u>px</u>
Green Roofs in Iowa	Iowa Department of Economic Development	http://www.iowalifechanging.com/community/resources/greenro ofs.aspx
Iowa Green Street Criteria		http://www.iowalifechanging.com/community/downloads/green- criteria08.pdf
Green Infrastructure		http://www.epa.gov/greeninfrastructure
Watershed		http://www.epa.gov/owow/watershed/
Nonpoint Source Program		http://www.epa.gov/owow/nps/
Stormwater Program	U.S. EPA	http://cfpub.epa.gov/npdes/home.cfm?program_id=6
Low Impact Development		http://epa.gov/nps/lid/
Smart Growth Program		http://www.epa.gov/smartgrowth/











Resource	Agency	Website
Protecting Water Quality		http://www.epa.gov/smartgrowth/pdf/2009_0106_sussex_count
With Smart Growth		<u>y.pdf</u>
Strategies and	U.S. EPA	
Natural Stormwater		See chapter 5 for before and after images of green streets and
Management in Sussex County, Delaware		rain gardens.
Region 7 Land		http://www.epa.gov/region07/land_revitalization/index.htm
Revitalization and Reuse	U.S. EPA Region 7	http://www.opa.gov/regiono//lana_revitail2ation/inidex.htm
	5.5. <u>-</u> 1 9	
Portland School Raingarden		http://www.portlandonline.com/shared/cfm/image.cfm?id=14751
Retrofit: Glencoe	Portland Bureau of Environmental	<u>0</u>
Elementary	Services	
Dain Candan Cail Evaluation		http://www.gain.ganlaga.agg/Euglasta.the.Cail.gha
Rain Garden Soil Evaluation Tool	West Michigan Environmental Action	http://www.raingardens.org/Evaluate_the_Soil.php
1001	Council	











Plants for Rain Gardens

Resource	Agency	Website
Iowa Rain Garden Manual -	<u> </u>	http://www.agriculture.state.ia.us/press/pdfs/RainGardenManual
plant list is on page 26	lowa Department of Agricultural and Land Stewardship	<u>.pdf</u>
Iowa Native Plant Database		http://www.iowalivingroadway.com/lowaPlants.asp
and Invasive Plant list	Iowa Living Roadway Trust Fund	
Detailed plant list for Iowa		http://prrcd.org/Recommended_Plants/raingarden%20native%2
Rain Gardens	Prairie Rivers of Iowa Resource	<u>Ospp.htm</u>
	Conservation & Development	
Plants for Stormwater		http://www.pca.state.mn.us/publications/manuals/stormwaterpla
Design	Minnesota Pollution Control Agency	<u>nts.html</u>
Wisconsin Native Plants for		http://dnr.wi.gov/runoff/rg/RaingardenPlantList.pdf
Rain Gardens, with photos		
	Wisconsin Department of Natural	
Wisconsin Shade Plants,	Resources	http://dnr.wi.gov/runoff/rg/plants/shady/ShadyRGPlantList-
with photos		photos.pdf











Funding Resources

Grant/Loan Name	Agency	Website
Iowa Community Development Block Grant (CDBG) Program	Iowa Department of Economic Development	http://www.iowalifechanging.com/community/community/default. aspx
State Revolving Fund for Wastewater and Drinking Water ¹	Iowa Finance Authority Iowa Department of Natural Resources	http://www.iowasrf.com/
Iowa Watershed Improvement Review Board ²	Iowa Department of Agriculture and Land Stewardship	http://www.iowaagriculture.gov/IWIRB.asp
Watershed Planning Grant	Iowa Department of Natural Resources	http://www.iowadnr.gov/water/watershed/planning.html
Watershed Development and Planning Assistance Grant	Iowa Department of Agriculture and Land Stewardship Iowa Department of Natural Resources Natural Resource Conservation Services	http://www.iowaagriculture.gov/waterResources/pdf/protocolBrochure.pdf
Water and Waste Direct Loan and Grant Program ³	U.S. Department of Agriculture Rural Development Program	http://www.rurdev.usda.gov/ia/cp_util_ww-Dir.html











Grant/Loan Name	Agency	Website
EPA Region 7 Grant Opportunities	U.S. EPA Region 7	http://www.epa.gov/region7/economics/r7_grant_opportunities.h tm
EPA Grants	U.S. EPA	http://www.epa.gov/ogd/grants/funding_opportunities.htm
Federal Grants	Grants.gov	http://www.grants.gov

Stormwater Grants: The types of eligible projects include infiltration practices, soil quality restoration, native landscaping, detention basins, ponds or wetland systems, pervious paving systems, grassed waterways or other practices that are shown to improve or protect water quality

Local Water Protection Program: The types of eligible projects include composting facilities, contour buffer strips, field borders or windbreaks, filter strips, riparian forest buffers, terraces, grade stabilization structures, grassed waterways or other practices that are shown to improve or protect water quality.

Planning and design (P&D) loans: 0% interest for up to three years to cover engineering and project development costs. P&D loans can be rolled into an SRF construction loan, or paid off with other permanent financing.

Construction loans: Lowest cost funds compared to other financing options, with interest rate of 3%. Loan term is up to 30 years, based on the average life of the project components, for all Clean Water SRF loans. For Drinking Water SRF loans, disadvantaged communities can qualify for up-to-30-year terms.

Contact Patti Cale-Finnegan, DNR State Revolving Fund Coordinator, 515-725-0498 or patti.cale-finnegan@dnr.iowa.gov.

¹ Some of the key types of State Revolving Funds include (from the Iowa SRF website):











EPA Section 319 Funds. These funds are provided by the U.S. Environmental Protection Agency (EPA) for distribution through the lowa Department of Natural Resources. These funds are used for various nonpoint source pollution control activities including water quality improvement and watershed projects. EPA Section 319 funds are appropriated by Congress to the EPA, a federal agency.

Water Protection Fund (WPF). WPF funds are appropriated by the lowa Legislature through the Resource Enhancement and Protection (REAP) account. This program is administered through the lowa Department of Agriculture and Land Stewardship-Division of Soil Conservation (IDALS-DSC) to address ground and surface water quality concerns from point and nonpoint sources of pollution.

Watershed Protection Fund (WSPF). WSPF funds are appropriated by the lowa Legislature and are administered by the IDALS-DSC. These funds provide state support to locally-led watershed protection initiatives. These funds are used to help develop projects that use integrated approaches to meet multiple purpose objectives.

Technical assistance on watershed planning and identifying potential sources of technical and financial assistance for watershed groups can be obtained through your Regional Coordinator. Contact information for your Regional Coordinator can be found in the following brochure: http://www.iowaagriculture.gov/waterResources/pdf/RegionalCoordinators.pdf

- Purchase, construct, enlarge, extend and/or improve rural drinking water, sanitary sewage, solid waste disposal, and storm wastewater disposal facilities;
- Purchase major equipment related to the project;
- Pay related project expenses, such as legal, engineering, architectural, and environmental fees

² Iowa Watershed Improvement Review Board details (from IDALS website):

³ USDA Rural Development funds can be used for: